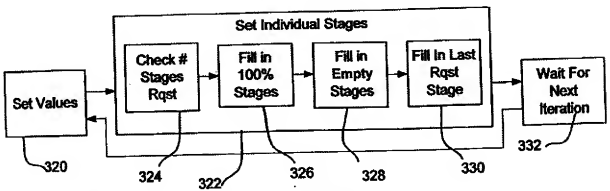

318

Stage_Control : // period_of_5sec.

$z = 0;$

$Heat_Command_Total = PID_Control(setpt, measured_value, throttling_range)$

322

$FOR(z < Num_Stages_Config):$

$$\left[\begin{array}{l} IF:(Num_Stages_Rqst = 0):\left[\begin{array}{l} FOR:(i = 0)to(i = Num_Stages_Config):\\ Heat_Command[z] = 0. \end{array}\right]; \\ IF:\left(Heat_Command_Total \geq \left(\frac{(z+1)*100}{Num_Stages_Config}\right)\right):[Heat_Command[z] = 100]; \\ ELSE:IF:\left(Heat_Command_Total < \left(\frac{(z)*100}{Num_Stages_Config}\right)\right):[Heat_Command[z] = 0]; \\ ELSE:[Heat_Command[z] = (Heat_Command_Total * Num_Stages_Config) - (z*100)]; \\ z = z + 1; \end{array}\right]$$

FIG. 13